



**FIGURE 2**

**FIGURE 3A**

1841 ATGAACGAGAAATTTCTCGACAA...ATCAAGCGGGAGATGCCACGCGAGAGCAGCAGTCCCGATTTGCCCGCCTTCGAGGC MetGen  
1758 ATGAAGGAGAAATTTCTCGACAAATCATCAAGCGGGAGATGCCACGCGAGAGCAGCAGTCCCGATTTGCCCGCCTTCGAGGC cDNA

1921 ACCGAGCAACTTGAGAGAAATTTCTCTATCTAATAGAGAACTACAGAAAGAGTGTGGATTTCAGCAGAGACCGCTCCCG MetGen  
1848 ACCGAGCAACTTGAGAGAAATTTCTCTATCTAATAGAGAACTACAGAAAGAGTGTGGATTTCAGCAGAGACCGCTCCCG cDNA

2091 GCGAGGCAATGGAAGGCTTAATGGAGGATGCTACAGTTGCCAGCAATACCTTAACTCTCGAGGAGTTAGCTCCCTCG MetGen  
1928 GCGAGGCAATGGAAGGCTTAATGGAGGATGCTACAGTTGCCAGCAATACCTTAACTCTCGAGGAGTTAGCTCCCTCG cDNA

2091 CCCAGCCCCCTTGGCTTGGTGCCTCCCTCCTCATCGGTCAAGAGCTCCATCTCCAAGTGGTGAGTGTGGTCAA MetGen  
2098 CCCAGCCCCCTTGGCTTGGTGCCTCCCTCCTCATCGGTCAAGAGCTCCATCTCCAAGTGGTGAGTGTGGTCAA cDNA

2161 TGTGACGGCGCCGAGAAAGTTTCAGCAGGAGCATCAGAAAGCAGCGTGAACGTGACCGTGAGCAGCTTAAGGAGCGCACCA MetGen  
2098 TGTGACGGCGCCGAGAAAGTTTCAGCAGGAGCATCAGAAAGCAGCGTGAACGTGACCGTGAGCAGCTTAAGGAGCGCACCA cDNA

2241 ACTCCAGCGAGGCGGTGATCGGCAACTGAGCAGCTGCTTAAGCGAGCGCGAAACCCCATCTCTATCTATCAGCAGCC MetGen  
2158 ACTCCAGCGAGGCGGTGATCGGCAACTGAGCAGCTGCTTAAGCGAGCGCGAAACCCCATCTCTATCTATCAGCAGCC cDNA

2321 ACTAGCTTGAGTCCAGCGAGGAGCAGCGGACCGCCGATCGGCACAGCAACACATCACCGCCACCGTCCGCTCCACACAC MetGen  
2248 ACTAGCTTGAGTCCAGCGAGGAGCAGCGGACCGCCGATCGGCACAGCAACACATCACCGCCACCGTCCGCTCCACACAC cDNA

2491 TCCAGGTCTCTGATCGAAACCTTGACGAGCAGCGTGGCATGACGGGCTGATGGAACCTGGTTTGCCTTCTAATTCGGTG MetGen  
2328 TCCAGGTCTCTGATCGAAACCTTGACGAGCAGCGTGGCATGACGGGCTGATGGAACCTGGTTTGCCTTCTAATTCGGTG cDNA

2481 TGTGGAATGGAACCTTAATTTGCTAGCTCACTGCTCCACAAACGAATTAATGATCGTAATATAATCTGGCCAATCGCAAT MetGen  
2488 TGTGGAATGGAACCTTAATTTGCTAGCTCACTGCTCCACAAACGAATTAATGATCGTAATATAATCTGGCCAATCGCAAT cDNA

2561 TCAAAACCCAAATCTATCAGAAAAAAGCAGCATTATTCAAATAGTTTAAAAATTCAAGCCAAAAAATCTAAAAACGAA MetGen  
2468 TCAAAACCCAAATCTATCAGAAAAAAGCAGCATTATTCAAATAGTTTAAAAATTCAAGCCAAAAAATCTAAAAACGAA cDNA

2641 AAAAAAGAGCGTGGGTTGAAGAACTTTTGTCTCATATTCACATTTCAAGCTTTGAGCAATCAAAACATTTTAATTT MetGen  
2568 AAAAAAGAGCGTGGGTTGAAGAACTTTTGTCTCATATTCACATTTCAAGCTTTGAGCAATCAAAACATTTTAATTT cDNA

2721 CAGTATACACATATCTATAATGAGTTGCTTTACAAAAGCTATTAACAAATCAAGCAATTTGTGTAATTTAATATGAGACT MetGen  
2648 CAGTATACACATATCTATAATGAGTTGCTTTACAAAAGCTATTAACAAATCAAGCAATTTGTGTAATTTAATATGAGACT cDNA

2891 TTCCTGATTTTGTCTTCTACGTACTTTTGGCTTCAATTCATCTATAGGTTTCCGTATTAATAACGAAATTAACGTG MetGen  
2728 TTCCTGATTTTGTCTTCTACGTACTTTTGGCTTCAATTCATCTATAGGTTTCCGTATTAATAACGAAATTAACGTG cDNA

2891 GTTTCATTTCATGAAATGCAATATGAGCTCGCATTTATTTTGATATTATGACAGTAATATGATCTGATCAGGATAATC MetGen  
2888 GTTTCATTTCATGAAATGCAATATGAGCTCGCATTTATTTTGATATTATGACAGTAATATGATCTGATCAGGATAATC cDNA

2961 GTTTTCTCAAAACATAAGCGATACATTTTGGGTACATTTGGCCATTACTGT MetGen  
2888 GTTTTCTCAAAACATAAGCGATACATTTTGGGTACATTTGGCCATTACTGT cDNA

3011 AGTTTGATACATGTTATATTTGATGAATGCGGATCGGTGGGTGCTGCTAAATGCGTTCCATTATCAATTAATTTTCTTAT MetGen  
2968 AGTTTGATACATGTTATATTTGATGAATGCGGATCGGTGGGTGCTGCTAAATGCGTTCCATTATCAATTAATTTTCTTAT cDNA

3011 GTAATTACGTTTAATTTGTAATATGATGAGTGGCAGCGTGAGTGAGTTTGTGATCGGTGTCAGCATCGGTGTGAATGAA MetGen  
3048 GTAATTACGTTTAATTTGTAATATGATGAGTGGCAGCGTGAGTGAGTTTGTGATCGGTGTCAGCATCGGTGTGAATGAA cDNA

3011 CATTAGATCAGTGTCTCGGATTTGCTTTTACGTTGAAATTTAAACCCCATTTCCCGATTTCCGAGTTATCACCTTCGGCCC MetGen  
3128 CATTAGATCAGTGTCTCGGATTTGCTTTTACGTTGAAATTTAAACCCCATTTCCCGATTTCCGAGTTATCACCTTCGGCCC cDNA

3011 CAAAAACCATTTGTAAAAAGAGTACAAAAAAGAAAGAAATAGAAAAACAAAAAAGAAAAA MetGen  
3288 CAAAAACCATTTGTAAAAAGAGTACAAAAAAGAAAGAAATAGAAAAACAAAAAAGAAAAA cDNA

FIGURE 3B

1	MAAPETGNTGS	GAAGSTGSGSGSGSGSGSS	PAN GRE A	AA	Genomic cDNA
1	MAAPETGNTGS	GSAGSTGSGSGSGSGSGSS	DPANGREA		
41	RNLAEEKQRRDKLNAS	SIQELATMVPHAAESSRRLDKTAVLR		AA	Genomic cDNA
41	RNLAEEKQRRDKLNAS	SIQELATMVPHAAESSRRLDKTAVLR			
81	FATHGLRLQYVFGKSASRRRKKT	TGLKGTGMSASPVGDLPN		AA	Genomic cDNA
81	FATHGLRLQYVFGKSASRRRKKT	XGLKGTGMSASPVGDLPN			
121	PSLHLTDTLMQLLDCCFLT	LTCSGQIVLVSTSV EQLLGHC		AA	Genomic cDNA
121	PSLHLTDTLMQLLDCCFLT	LTCSGQIVLVSTSV EQLLGHC			
161	QSDLYGQNLLQITHPDDQDL	LRQQLIPRDIETLFYQH QHH		AA	Genomic cDNA
161	QSDLYGQNLLQITHPDDQDL	LRQQLIPRDIETLFYQH QHH			
201	QQQGHNPQQHSTSTSA	SXSGSDLEEEEMETEEHRLGRQQG		AA	Genomic cDNA
201	QQQGHNPQQHSTSTSA	ASGSDLEEEEMETEEHRLGRQQG			
241	EADDDDEDHPYNRRTPSPRR	MAHLATIDDRLRMDRRCFTVR		AA	Genomic cDNA
241	EADDDDEDHPYNRRTPSPRR	MAHLATIDDRLRMDWRCFTVR			
281	LARASTRAEATRHYERV	KIDGCFRRSDSSLTGGAANYPI		AA	Genomic cDNA
281	LARASTRAEATRHYERV	KIDGCFRRSDSSLTGGAANYPI			
321	VSQLIIRSRNNNMLAAAA	AVAAEAATVPPQHDAIAQAALH		AA	Genomic cDNA
321	VSQLIIRSRNNNMLAAAA	AVAAEAATVPPQHDAIAQAALH			
361	GISGNDIVLVAMARVLR	REERPPEETEGTVGLTIYRQPEPY		AA	Genomic cDNA
361	GISGNDIVLVAMARVLR	REERPPEETEGTVGLTIYRQPEPY			
401	QLEYHTRHLIDGSIIDCD	QRIGLVAGYMKDEV	GIL TSSL		
401	QLEYHTRHLIDGSIIDCD	QRIGLVAGYMKDEV		AA	Genomic cDNA
441	TAYDN	SCTLH SKQVRNLSPFCFMHLDDVRWV	I VALRQMY		
433				AA	Genomic cDNA
481	DCNSDYGESCYRLLSRN	GRFIYLHTKGFLEVDRGSKNVHS		AA	Genomic cDNA
458	DCNSDYGESCYRLLSRN	GRFIYLHTKGFLEVDRGSKNVHS			
521	FLCVNTLLDEEAGRQKV	QEMKEKFSTIIKAEMPTQSSSPD		AA	Genomic cDNA
498	FLCVNTLLDEEAGRQKV	QEMKEKFSTIIKAEMPTQSSSPD			
561	LPASQAPQQLERIVLYL	LIENLQKSVD SAETVGGQGME SLM		AA	Genomic cDNA
538	LPASQAPQQLERIVLYL	LIENLQKSVD SAETVGGQGME SLM			
601	DDGYSSPANTLTLEEL	APSPTPALALVPPAPSSSVKSSISK		AA	Genomic cDNA
578	DDGYSSPANTLTLEEL	APSPTPALALVPPAPSSSVKSSISK			
641	SVSVVNVTAARKFQQEH	QKQRERDREQLKERTNSTQGVIR		AA	Genomic cDNA
618	SVSVVNVTAARKFQQEH	QKQRERDREQLKERTNSTQGVIR			
681	QLSSCLSEAE TASCIL	SPASSLSASEAPDTPDPHSNTSPP		AA	Genomic cDNA
658	QLSSCLSEAE TASCIL	SPASSLSASEAPDTPDPHSNTSPP			
721	PSLHTRPSVLHRTL	LTSTLR		AA	Genomic cDNA
698	PSLHTRPSVLHRTL	LTSTLR			

FIGURE 4

1 ATGGCAGCACAGAGACGGGCAACACGGGCTCCACAGGATCCGCTGGCTCGACAGGATCGGGATCGGGATCGGGAAAGTGGGAGC A

1 CAGCAGACGGGGCAACACGGGCAACACAGGATCAGCTGGTCCACA-----GGATCGGGATCGGGAACTGGGACG F

91 TCCTCAGATCCAGCGAATGGACGGGAGGCCCGTAACCTTGCCGAAAAACAGCGACGGGATAAGCTTAATGCCAGCATCCAGGAGCT A

72 TCCGCAGATCCAGCGAATGGACGGGAGGCCCGCAATCTTGCCGAGAAACAGCGACGGGATAAGCTTAATGCCAGCATCCAGGAGCT B

181 GGCTACCATGGTACCACATG-CAGCCGGAATCCTCCCGTCGCCCTGGACAAAACCGCCGTCCTTAGATTGCGCCACCC A

158 GGCTACCATGGTACCACATGTCAGCCGGAATCCTCCCGACGCCCTGGACAAAACCGCCGTCCTCAGATTGCGCCACCC B

FIGURE 5

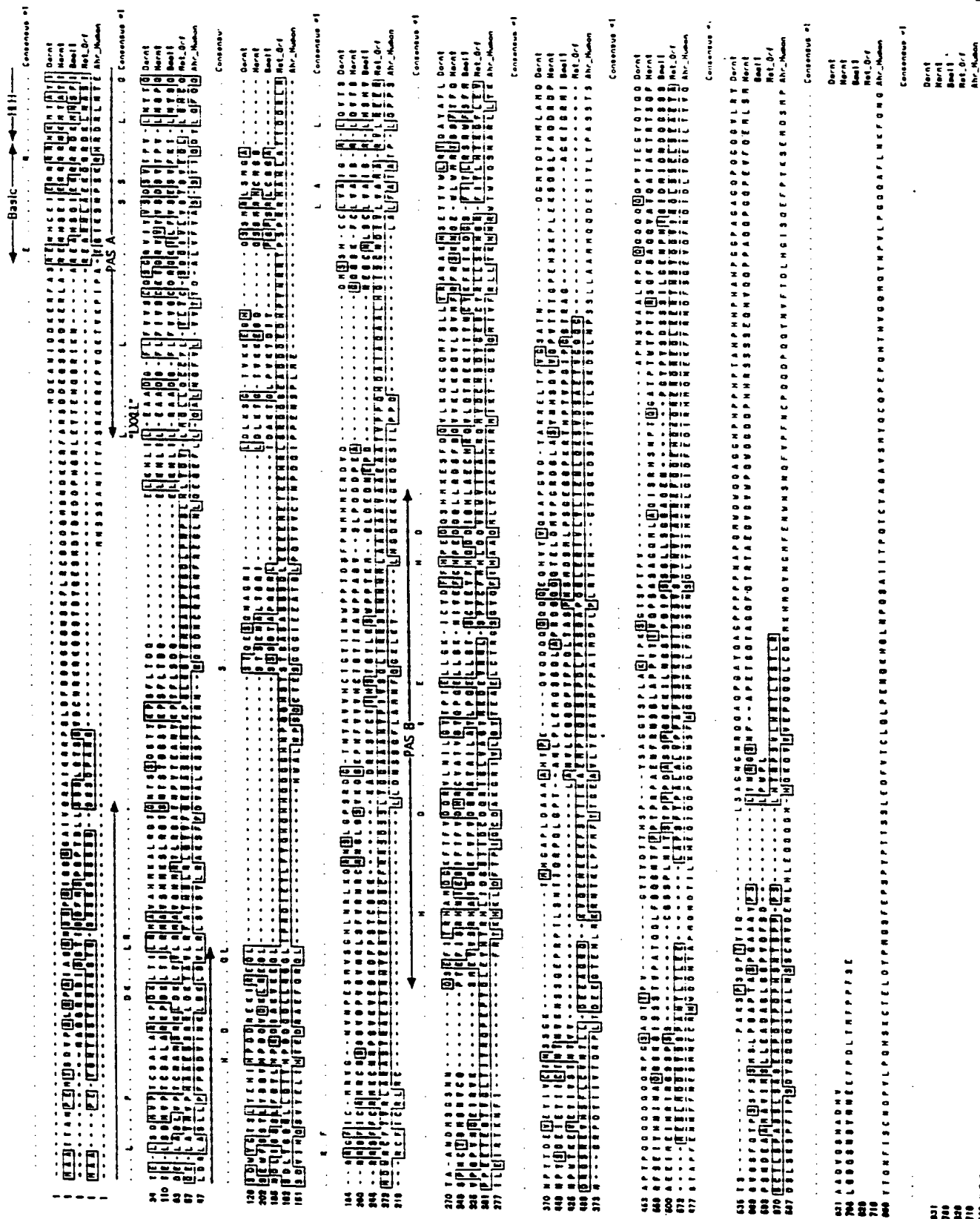


FIGURE 6

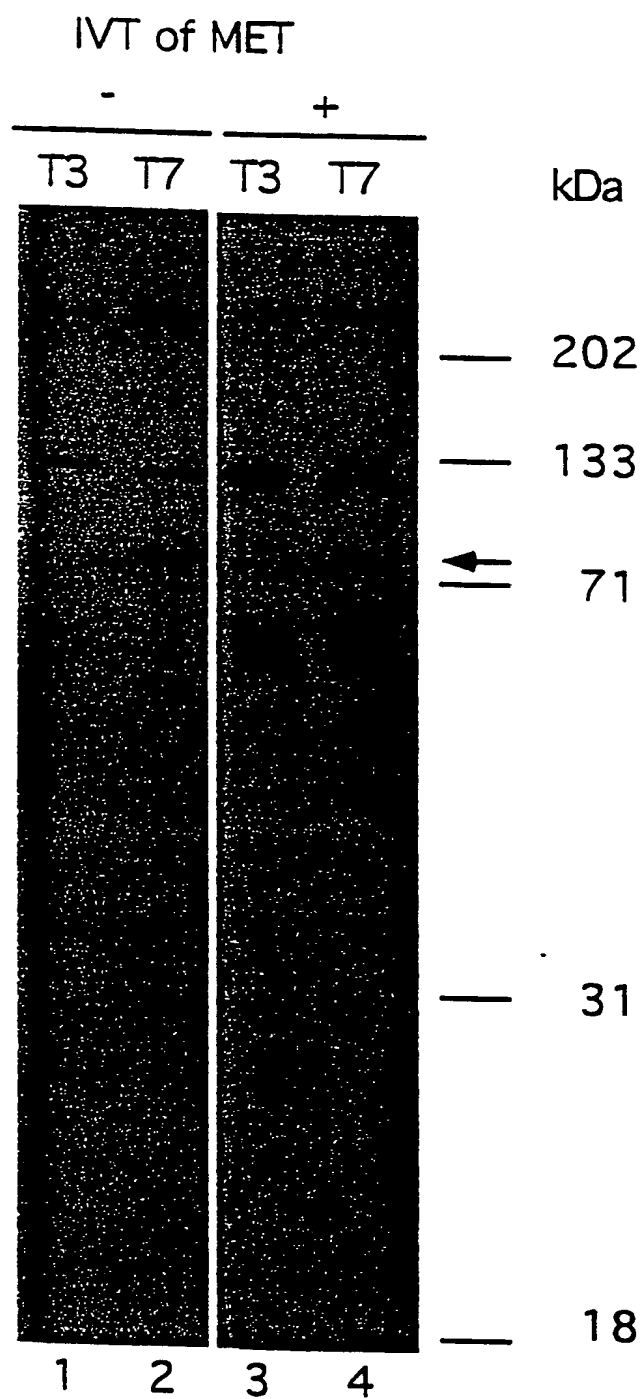


FIGURE 7



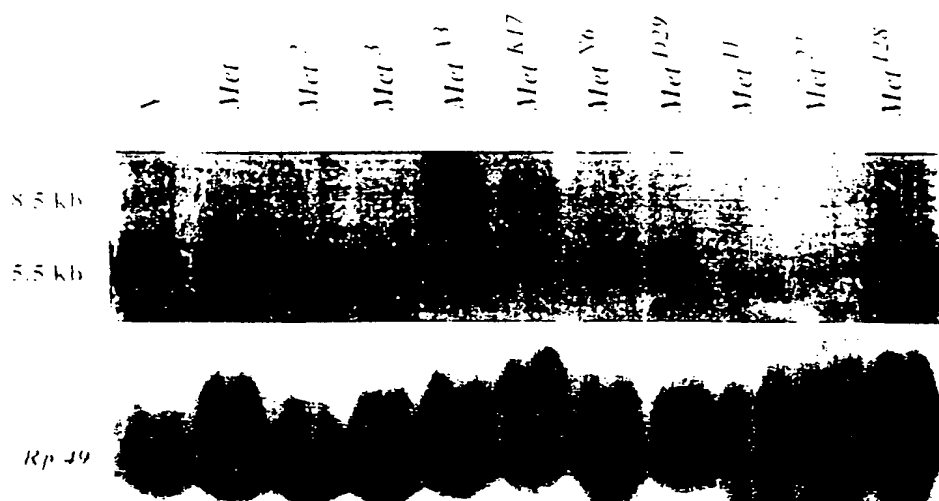
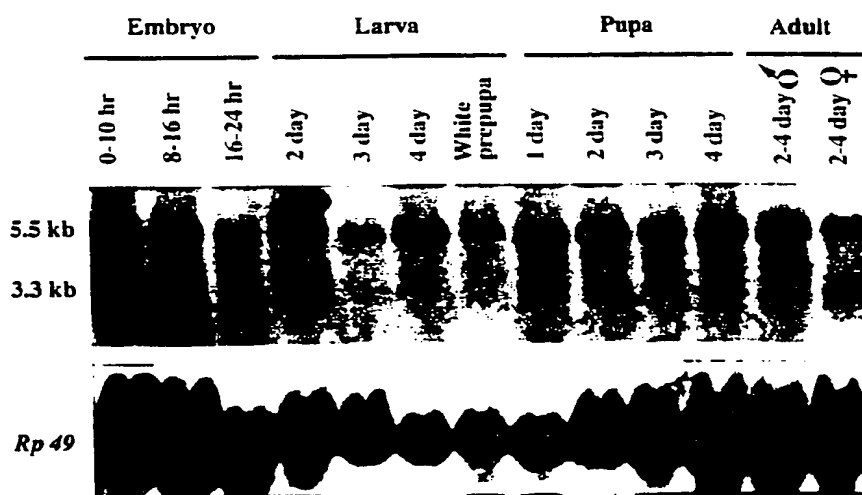


FIGURE 8

THE UNIVERSITY OF CHICAGO



**FIGURE 9**